



Department of Computer Science Holy Cross College (Autonomous)

Nationally Re-Accredited with A+ by NAAC (CGPA 3.35-IV Cycle),
Nagercoil-629004, Kanyakumari District, Tamil Nadu, India.



Minutes of the Board of Studies meeting of the Department of Computer Science held on
02.12.2021 at 11.00 AM via Google Meet

Ref. No: COMP / BoS 2021-2022 / XIV

Members:

- | | | |
|----------------------------|---|---|
| Sr. Jothi Antony | - | Chairperson & Head of the Department,
Dept. of Computer Science, Holy Cross College, Nagercoil |
| Dr. D. Glory Ratna Mary | - | University Nominee, Department of Computer Science & Head,
Women's Christian College, Nagercoil - 4. |
| Dr. A. John Christopher | - | Subject Expert, Department of Computer Science,
S.T. Hindu College, Nagercoil-2. |
| Mrs. V. Mageshwari | - | Subject Expert, Department of Information Technology & Head,
Fatima College(Autonomous), Madurai-18. |
| Mrs. Asha William | - | Industrialist, Director, Creative Technologies,
Velachery, Chennai-42 |
| Ms. S. Pamina | - | Alumni, Software Tester, UST.com
Bangalore |
| Mrs. J. Anto Hepzie Bai | - | Member, Holy Cross College, Nagercoil |
| Mrs. N.Nithila | - | Member, Holy Cross College, Nagercoil |
| Mrs. V. R. Bithiah Blessie | - | Member, Holy Cross College, Nagercoil |
| Mrs. Pillai Archana | - | Member, Holy Cross College, Nagercoil |

Agenda

1. Prayer
2. Welcome by the Chairperson
3. Reading of the minutes of the previous meeting
4. Revamping / Revision of Curriculum of UG
5. UG Syllabus for Semester V and VI
6. Classification of New Courses

7. Classification of courses as Employability / Entrepreneurship / Skill Development
8. Classification of courses as Local / National / Regional / Global
9. Classification of courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics
10. Conduct of UG practical exam during the even semester
11. Recommendation of books and journals for UG
12. Conduct of seminars / workshops in collaboration with Govt agencies / Universities / NGOs
13. Suggestions for innovative teaching and evaluation techniques for UG
14. New measures to be undertaken by the department
15. Feedback and action taken
16. Next Meeting of BoS
17. Any other

The Board of Studies meeting commenced with a prayer by Mrs.V. R. Blessie. The members of the board, the Chairperson, University Nominee, Subject experts, Industrialist, Alumna and faculty of the Department, were present for the meeting.

Chairperson's Address

The Chair Person and Head of the Department, Sr.Jothi Antony, welcomed the members and introduced them while briefing on the agenda for the conduct of this meeting. The following items in the Agenda were discussed by the members of the Board.

Item 01/BoS 21.12/03: Reading of the minutes of the previous meeting held on 05.02.2021

Mrs. J. Anto Hepzie Bai read the minutes of the previous meeting which was approved by the members after incorporating the modifications/suggestions given by the Academic council.

Item 02/BoS 21.12/04: Approval of Revamping / Revision of curriculum of UG

The overall structure of the curriculum framed in 2020 was accepted by the board with the following modifications.

- (i) Syllabus content of Computer Graphics is being modified. Bresenham's Line Algorithm - Line Functions and Curve Functions were added in Unit II from the feedback of the students and Alumni.

Courses offered for the students of **B.Sc., Computer Science** are given in the following structure.

Course Structure
Distribution of Hours and Credits

Course	Sem. I	Sem.II	Sem.III	Sem.IV	Sem.V	Sem.VI	Total	
							Hours	Credits
Part I–Language	6 (4)	6 (4)	-	-	-	-	12	8
Part II-English	6 (4)	6 (4)	-	-	-	-	12	8
Part-III								
Major Core - Theory	4(4)	4(4)	5(4)+ 5(4)+ 5(4)	5(5) + 5(5)	6(5) + 5(5)	5(5)+ 5(5)+ 5(5)	59	55
Major Core -Practical	4(2)	4(2)	4(2) 4(2)	4(2) 4(2)	6(3)	4(2) 4(2)	38	19
Elective	-	-	-	5(4)	5(4)	5(4)	15	12
Project	-	-	-	-	6(6)		6	6
Allied- Theory	4(3)	4(3)	5(3)	5(3)	-	-	18	12
Part IV								
Add on Course(Professional English)	2(2)	2(2)	2 (2)	2 (2)	-	-	8	8
Non-Major Elective	2 (2)	2 (2)	-	-	-	-	4	4
SEC(Skill Enhancement Course)	2 (2)	2 (2)	-	-		2 (2)	6	6
AEC(Ability Enhancement Course)					2(2)		2	2
Total	30(23)	30(23)	30(21)	30(23)	30(25)	30(25)	180	140
Non Academic Courses								
Part V								
FC –I(Values for Life)	-	(1)	-	-	-	-	-	1
FC– II(Personality Development)	-	-	-	(1)	-	-	-	1

FC-III (Human Rights Education)	-	-	-	-	(1)	-	-	1
FC-IV (Gender Equity Studies)	-	-	-	-	-	(1)	-	1
SLP-Community Engagement Course	-	-	(2)	-	-	-	-	2
SLP-Extension activity (RUN)			-	(2)				2
STP - Clubs & Committees / NSS	-	-	-	(2)	-	-	-	2

Total number of hours = 180

Total number of credits = 140+10

Non Academic Courses are Mandatory and conducted outside the regular working hours

Courses Offered

Semester	Course	Course Code	Title of the Course	Hours / Week	Credits
I	Part I	TL2012/ FL2111	Language: Tamil/French	6	4
	Part II	GE2013	General English	6	4
	Part III	SC2011	Major Core I: Programming Concepts in C	4	4
		SC20P1	Major Practical I: C Programming	4	2
		SA2011	Allied I: Theory: Digital Principles and Applications	4	3
	Part IV	APS201	Add on Course: Professional English for Physical Sciences - I	2	2
		SNM201	Non Major Elective (NME): Internet and Web Designing with HTML	2	2
		SEC201 / SEC202	Skill Enhancement Course (SEC): Meditation and Exercise / Computer Literacy	2	2
	Part V	FCV201	Foundation Course I: Values for Life	-	-
		STP201	Student Training Programme (STP): Clubs & Committees / NSS	-	-
	Part I	TL2021/ FL2121	Language: Tamil/French	6	4
	Part II	GE2023	General English	6	4

II	Part III	SC2021	Major Core II: Object Oriented Programming Using C++	4	4
		SC20P2	Major Practical II: C++ Programming	4	2
		SA2021	Allied II: Theory: Computer Organization and Architecture	4	3
	Part IV	APS202	Add on Course: Professional English for Physical Sciences – II	2	2
		SNM202	Non Major Elective (NME): Desktop Publishing using Scribus	2	2
		SEC201 / SEC202	Skill Enhancement Course (SEC): Meditation and Exercise / Computer Literacy	2	2
	Part V	FCV201	Foundation Course I: Values for Life	-	1
		SLP201	Service Learning Programme: Community Engagement Course		
		STP201	Student Training Programme (STP): Clubs & Committees / NSS	-	-
III	Part III	SC2031	Major Core III: Programming in Java	5	4
		SC2032	Major Core IV: Data Structures and Algorithms	5	4
		SC2033	Major Core V: Computer Networks	5	4
		SC20P3	Major Practical III: Java Programming	4	2
		SC20P4	Major Practical IV: Data Structure Using C++	4	2
		SA2031	Allied III: Theory: Numerical and Statistical Methods	5	3
	Part IV	APS203	Add on Course: Professional English for Physical Sciences	2	2
	Part V	FCV202	Foundation Course II: Personality Development	-	-
		STP201	Student Training Programme (STP): Clubs & Committees / NSS	-	-
SLP201		Service Learning Programme (SLP):Community Engagement Course	-	2	
IV	Part III	SC2041	Major Core VI: UNIX and Shell Programming	5	5
		SC2042	Major Core VII: Relational Database Management Systems	5	5
		SC2043 SC2044 SC2045	Elective I: (a) Software Engineering (b) System Administration and Maintenance (c) Software Testing	5	4
		SC20P5	Major Practical V: Shell Programming	4	2
		SC20P6	Major Practical VI: SQL and PLSQL	4	2
		SA2041	Allied IV: Theory: Discrete Mathematics	5	3

	Part IV	APS204	Add on Course: Professional English for Physical sciences	2	2
	Part V	FCV202	Foundation Course II: Personality Development	-	1
		SLP202	Service Learning Programme (SLP) Extension Activity (RUN)		
		STP201	Student Training Programme (STP): Clubs & Committees / NSS	-	2
V	Part III	SC2051	Major Core VIII: Web Technology: Theory and Practice	6	5
		SC2052	Major Core IX: Mobile Computing and its Applications	5	5
		SC2053 SC2054 SC2055	Elective II: (a) Multimedia Systems (b) Microprocessor & Assembly Language Programming (c) Open Source Technology	5	4
		SC20P7	Major Practical VII: Web Technology Lab	6	3
		SC20PR	Project	6	6
		Part IV	AEC201	Ability Enhancement Course (AEC): Environmental Studies	2
	Part V	FCV203	Foundation Course III: Human Rights Education	-	1
VI	Part III	SC2061	Major Core X: Android Programming	5	5
		SC2062	Major Core XI: Computer Graphics	5	5
		SC2063	Major Core XII: Operating Systems: Design Principles	5	5
		SC2064 SC2065 SC2066	Elective III: PHP Programming (a) Network Security (b) E-Commerce Technologies	5	4
		SC20P8	Major Practical VIII: Android Programming Lab	4	2
		SC20P9	Major Practical IX: Computer Graphics Lab	4	2
	Part IV	SSK206	Skill Enhancement Course (*SEC): Photoshop CS6	2	2
	Part V	FCV204	Foundation Course IV: Gender Equity Studies (GES)	-	1
			TOTAL	180	140+ 10

Value Added Courses

The BoS members approved the following value added courses:

Photoshop

Python Programming

Advanced Excel

Microsoft Publisher
 .Net Programming
 Quantitative Aptitude

Item 03/BoS 21.12/05: Approval of UG Syllabus for Semester V and VI

The BoS members approved the Courses in Sem V and Sem VI for UG programme.

- i. The following courses during the V and VI semesters are revised/ modified based on the feedback from the students & Alumni.

Sl.No.	Sem ester	Paper Code	Paper Title	Changes	
				Removed (if any)	Addition (if any)
1	VI	SC2061	Major Core X: Android Programming	Exploring Intent Resolution, Exploring Intent Filters, Using the Intent Object to Invoke Built-in Application topics removed from Unit II	-
2	VI	SC2062	Major Core XI: Computer Graphics	Flat Panel Displays, Three Dimensional Viewing Devices, Space Ball and Joysticks, Data Glove, Digitizers.	Bresenham's Algorithms, Attributes of O/P Primitives

- ii. The Core title 'Web Technology' is changed into 'Web Technology: Theory and Practice'.
- iii. The Core Course 'Operating System' from Semester V is shifted to Semester VI and changed as 'Operating Systems: Design Principles'.
- iv. The Elective II 'Data Communication and Computer Networks' in Semester V is removed and the course 'Multimedia Systems' is introduced.
- v. The Elective II 'Data Mining' in Semester V is removed and the course 'Open Source Technology' is introduced.
- vi. The Elective II 'Image Processing' in Semester V is removed.
- vii. The SEC title 'Photoshop' course is changed to 'Photoshop CS6'.
- viii. The Core title 'Android Application Development' in Semester VI is changed to 'Android Programming'.
- ix. The Core Course 'Computer Graphics and Multimedia' in Semester VI is removed and the course 'Computer Graphics' is introduced.
- x. The Elective Course III 'Mobile Computing' is removed and the course 'PHP Programming' is introduced.

xi. The Elective Course III 'Client-Server Technology' is removed and the course 'Network Security' is introduced.

xii. The Elective Course III 'Artificial Intelligence and Expert System' is removed and the course 'E-Commerce Technologies' is introduced.

Item 04/BoS 21.12/06: Classification of New Courses

Sl.No	Sem ester	Course Code	Course Title	New Courses
1.	V	SC2051	Major Core VIII: Web Technology: Theory and Practice	✓
2.	V	SC2052	Major Core IX: Mobile Computing and its Applications	✓
3.	V	SC2053	Elective II: (a) Multimedia Systems	✓
4.	V	SC2054	Elective II: (b) Microprocessor & Assembly Language Programming	
5.	V	SC2055	Elective II: (c) Open Source Technology	✓
6.	V	SC20P7	Major Practical VII: Web Technology Lab	
7.	VI	SC2061	Major Core X: Android Programming	
8.	VI	SC2062	Major Core XI: Computer Graphics	✓
9.	VI	SC2063	Major Core XII: Operating Systems: Design Principles	✓
10.	VI	SC2064	Elective III: (a) PHP Programming	✓
11.	VI	SC2065	Elective III: (b) Network Security	✓
12.	VI	SC2066	Elective III: (c) E-Commerce Technologies	✓
13.	VI	SC20P8	Major Practical VIII: Android Programming Lab	
14.	VI	SC20P9	Major Practical IX: Computer Graphics Lab	
15.	VI	SSK206	Skill Enhancement Course (*SEC): Photoshop CS6	✓

Item 05/BoS 21.12/07: Classification of the courses as Employability/ Entrepreneurship / Skill Development

Sl.No	Sem ester	Course Code	Course Title	Emplo yability	Entrepre neurship	Skill Develo pment
1.	V	SC2051	Major Core VIII: Web Technology: Theory and Practice	✓	✓	✓
2.	V	SC2052	Major Core IX: Mobile Computing and its Applications	✓	✓	✓
3.	V	SC2053	Elective II: (a) Multimedia Systems	✓		✓
4.	V	SC2054	Elective II: (b) Microprocessor & Assembly Language Programming	✓	✓	✓

5.	V	SC2055	Elective II: (c) Open Source Technology	✓	✓	✓
6.	V	SC20P7	Major Practical VII: Web Technology Lab	✓		✓
7.	VI	SC2061	Major Core X: Android Programming	✓	✓	✓
8.	VI	SC2062	Major Core XI: Computer Graphics	✓		✓
9.	VI	SC2063	Major Core XII: Operating Systems: Design Principles	✓	✓	✓
10.	VI	SC2064	Elective III: (a) PHP Programming	✓	✓	✓
11.	VI	SC2065	Elective III: (b) Network Security	✓	✓	✓
12.	VI	SC2066	Elective III: (c) E-Commerce Technologies	✓	✓	✓
13.	VI	SC20P8	Major Practical VIII: Android Programming Lab			✓
14.	VI	SC20P9	Major Practical IX: Computer Graphics Lab	✓		✓
15.	VI	SSK206	Skill Enhancement Course (*SEC): Photoshop CS6	✓	✓	✓

Item 06/BoS 21.12/08: Classification of the courses as Local/ National / Regional / Global

Sl. No	Semester	Course Code	Course Title	Local	National	Regional	Global
1.	V	SC2051	Major Core VIII: Web Technology: Theory and Practice	✓	✓	✓	✓
2.	V	SC2052	Major Core IX: Mobile Computing and its Applications	✓	✓	✓	✓
3.	V	SC2053	Elective II: (a) Multimedia Systems	✓	✓	✓	✓
4.	V	SC2054	Elective II: (b) Microprocessor & Assembly Language Programming	✓	✓	✓	
5.	V	SC2055	Elective II: (c) Open Source Technology		✓	✓	✓
6.	V	SC20P7	Major Practical VII: Web Technology Lab	✓	✓		✓
7.	V	SC2061	Major Core X: Android Programming				✓
8.	V	SC2062	Major Core XI: Computer Graphics	✓	✓	✓	✓
9.	VI	SC2063	Major Core XII: Operating Systems: Design Principles	✓	✓	✓	✓
10.	VI	SC2064	Elective III: (a) PHP Programming	✓	✓	✓	✓

11.	VI	SC2065	Elective III: (b) Network Security				✓
12.	VI	SC2066	Elective III: (c) E-Commerce Technologies		✓	✓	✓
13.	VI	SC20P8	Major Practical VIII: Android Programming Lab	✓		✓	✓
14.	VI	SC20P9	Major Practical IX: Computer Graphics Lab	✓	✓		
15.	VI	SSK206	Skill Enhancement Course (*SEC): Photoshop CS6	✓	✓	✓	

Item 07/BoS 21.12/09: Classification of the courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics

No Courses were classified as Crosscutting Issues - Gender Equity / Environment and Sustainability / Human Values / Professional Ethics.

Item 08/BoS 21.12/10: Conduct of UG practical exam during the even semester

From the feedback of the stakeholders, it is suggested by the Board of studies members to retain the existing pattern followed from 2007 onwards. (Practical exams are conducted in all the semesters). The board suggested and permitted to have an individual project for the final years in their V Semester.

Item 09/BoS 21.12/11: Recommendation of books and journals for UG

1. Refer UGC Care List Journals and IEEE papers to the UG students for better teaching and learning techniques.
2. Board suggests to use the text books and reference books given in the TANSCHÉ structure for UG programme.

Item 10/BoS 21.12/12: Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs

The BoS members suggested conducting workshop on Hardware Training and to incorporate Graphics Designing to Techpoint Startup.

Item 11/BoS 21.12/13: Suggestions for innovative teaching and evaluation techniques for UG

The BoS members suggested the following methodologies to enhance teaching, learning and evaluation.

1. Web Technology was suggested to be provided as a practical paper.

2. Suggestions were also made that we need not consider the textbook publication year since we are teaching students the basic concepts.
3. Recommendations of books/Journals were made for the students. UGC Care List Journals and IEEE papers were asked to be referred for the students for better teaching/learning techniques.

Item 12/BoS 21.12/14: New measures to be undertaken by the department

Tech Point – is a start-up Programme to prepare the Websites, to do all kinds of Online Payments (Within the Institution), to prepare the PPT Presentations (Students Paper Presentations, Class Seminars), to prepare Invitations and Brochures. We introduce participatory learning techniques – Flipped classrooms. Staff exchange programme is taken up between our Department and the Computer Science Department of Holy Cross College, Tuticorin.

Item 13/BoS 21.12/15: Feedback and Action Taken

Stakeholders	Feedback Received	Action Taken
Students	Need materials for study.	Provided
Parents	Curriculum is good.	-
Teachers	Curriculum related activities are carried out well.	-
Alumni	Teaching and learning methods are good.	-

Feedback from student representatives

Need study materials. Teaching and learning methods are good. Conduct hands on training workshops to improve the knowledge. Give more importance to practical's. The hands-on projects were incredibly valuable in applying theoretical concepts to real-world scenarios.

B. Briyola Rosary

Briyola Rosary

A. Joelline Anna

Joelline Anna

Item 14/BoS 21.12/16: Next Meeting of the BoS

The members of the board suggested to have the next meeting of BoS in the month of September, 2022. The meeting ended at 1 pm with the vote of thanks by Mrs. N. Nithila

Item 15/BoS 21.12/17: Any other

Nil

Details of Board Members with their Signature

Name of the Members	Designation	Signature
Sr.Jothi Antony	Assistant Professor and Head	<i>Sr. Jothi</i>
Dr. D. Glory Ratna Mary	Associate Professor and Head	<i>Dr. D. Glory Ratna Mary</i>
Dr.A. John Christopher	Associate Professor	<i>A John C.C.</i>
Mrs. V. Mageshwari	Associate Professor and Head	<i>Indiraj</i>
Mrs. Asha William	Director, Creative Technologies Velachery	<i>Asha William</i>
Ms. S. Pamina	Software Tester(Alumni)	<i>Pamina</i>
\Mrs. J. Anto Hepzie Bai	Assistant Professor	<i>Hepzie</i>
Mrs. V. Abisha	Assistant Professor	<i>Abisha</i>
Mrs. V.R. Bithiah Blessie	Assistant Professor	<i>Bithiah</i>
Mrs. Pillai Archana	Assistant Professor	<i>Archana</i>